

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-041113

(43)Date of publication of application : 13.02.1998

(51)Int.Cl.

H01F 1/06
B22F 1/00
C22C 33/02
H01F 1/053

(21)Application number : 08-196412

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(22)Date of filing : 25.07.1996

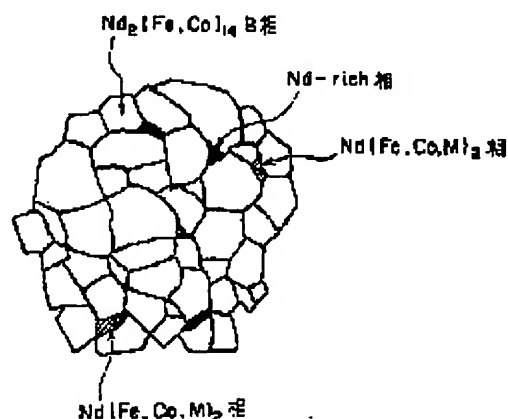
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(54) RARE EARTH MAGNET MATERIAL POWDER HAVING SUPERIOR MAGNETIC CHARACTERISTICS AND MANUFACTURE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To provide rare earth magnet material powder of superior magnetic characteristics which has an R2(Fe, Co)14B type intermetallic compound phase as a main phase.

SOLUTION: A recrystallization aggregate structure has, as a main phase, a structure in which recrystallized grains comprising a component composition, which has a rare earth element containing Y (hereinafter referred to as R), Fe, Co and B as main components, and which contains 0.001-5.0 atomic % of one or more species out of Zr, Si and Hf (hereinafter referred to as M), and an R2(Fe, Co)14B type intermetallic compound phase which employs a tetragonal structure whose recrystallized grain diameter is 0.05-50µm in average, adjoin one another, and contains R-rich phase in partial grain boundary. In R-(Fe, Co)-B-M based magnet material powder which comprises the structure, the recrystallization aggregate structure contains 0.1-1vol% of a R(Fe, Co, M)2 in volume percentage.



LEGAL STATUS

[Date of request for examination]

29.09.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3237053

[Date of registration]

05.10.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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